

HOW I STARTED ON 432MHZ

BUILDING MY 1ST YAGI ARRAY 1987 (1992) : 8 X 24EL - 6.6L YAGIS

(#119 AND 295 QSOS)







RANDOM JAN DL9KR CALLED ME DURING MY ECHO TESTS ©

To PA3DZL

Pleasant surprise to interrupt your echo tests and make our first 70cm EME QSO on Sep-12-87 at 2028 UT 432,012 MHZ RST 549.

My locator: J040de

Ant: 16x20 el DL9KR, open wire

feed & phasing

RX: NE75083 front end

TX: 1,5 KW RF at antenna out of YL1050 cavity amp.

Heard you varaous times during the weekend and always with good signals! Good first show.

Bcnu often & 73,

DL9KR

Another MEMORABLE QSO KP4I Oct.17th 1987

2 X 21EL. F9FT 1999 – 2005





38EL. ARECIBO KP4AO IN SSB APRIL 2010



4 x 38EL. 13L M2 yagis 2010 - 2012



BUDGET / PERFORMANCE CALCULATION

Dish	Gain dBd	Yagi array	Gain dBd
3.0m	19.1	4 x 12el ca. 3.0L	19.3
3.7m	21.0	4 x 17el ca. 5.5L	21.1
4.0m	21.6	4 x 19el ca. 6.5L	21.7

In memory of AI, K2UYH: "Why not use your dish for as

many different bands as possible"

Dish:

- Low loss before the preamp; Much better RX
- Fully rotatable feed is a VERY BIG advantage Mr. Faraday

Yagis:

Much less windload

3.7M DISH WITH PATCH FEED USED IN 2017 @ PA3DZL









Frank, PA2M measuring RL

NEW RING FEED OKIDFC/OKICA +1.5DB SEPT. 2020





@ PA3DZL IN 2021 ENLARGED MY 3.7M DISH TO 4.5M F/D IS 0.27 NOW, THE PERFORMANCE OF A ~4M DISH



- Rig 1kW@feed, LNA 0.3dB NF, OK1DFC Ringfeed H+V rotatable 7 sec.
- 458 QSOs with dish CW and Digi mode
- 160 initials with dish CW and Digi mode
- Smallest station 1 x 23el. Yagi and 50W
- Several 1 Yagi stations 100W and more
- I hear better than most 4 Yagi stations due to the low system temperature and very little losses before my preamp! 2 to 4dB

3.7M DISH @ GERARD PAØBAT



- Rig 1kW@feed, LNA 0.3dB NF, CT1DMK Ringfeed rotatable H + V
- 160 QSOs, 51 DXCCs, smallest station 1Y-200W JT65.







3.2M DISH @ ZDENEK OK1DFC USED DX-PEDITIONS







- Rig: 1.2kW SSPA, LNA 0.3dB NF, OK1DFC Ringfeed
- 2009 E77DX DX-ped. 22 QSOs CW and JT65B
- 2011 ISØ/OK5EME DX-ped. 38 QSOs CW and JT65B
- 2014 SP/OK5EME DX-ped. 30 QSOs CW and JT65B
- 2017 EA9LZ DX-ped. 85 QSOs 22xCW and 63xJT65B
- 2018 4U1ITU DX-ped. 32 QSOs CW and JT65B

3.0M DISH @ JAN PAØPLY

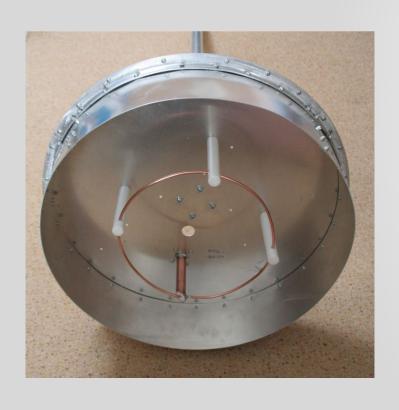






- Rig: 360W SSPA, LNA 0.4dB NF, OK1DFC Ringfeed + rotator
- 21 QSOs, smallest station 4x13el. And 700W
- Despite high local noise nice results
- Recently Jan installed a 432Mhz bandpass filter, gave a nice improvement!

OK1DFC/CT1DMK RINGFEED FOR F/D 0.3-0.45





- Diameter 420mm, it is small so not much blockage!
- Dimensions available on the website of Zdenek, OK1DFC

DUAL DIPOLE FEED FOR F/D 0.45 (0.38-0.5)



Front view of the feed G3LTF



Rear view showing rotation mechanism

- Diameter of the backplate is 700mm: IT IS LARGE FOR A SMALL DISH * BLOCKAGE *
- Dimensions available @ G3LTF and PA3DZL

PREAMPS 432Mhz narrow band



OK1DFC LNA with Bandpass filter
Do it yourself preamp , info on website



VHF DESIGN

KUHNE Electronic



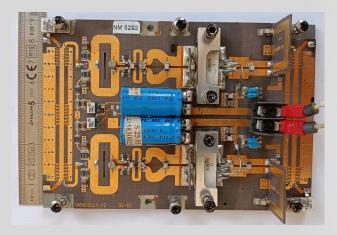


Down East Microwave Inc.

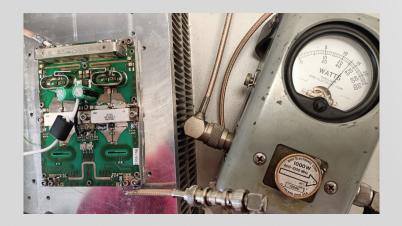
Antennas-Amplifiers



432Mhz RF-BOARDS



ON EBAY: 250W SSPA: \$110 (ITALY)



ON EBAY: 500W SSPA: \$130 (ITALY)

POWER AMPLIFIERS



W6PQL 500W or 1kW



LINEARamp Gemini 1kW



IF YOU HAVE A DISH

3M OR BIGGER AND

NOT QRV ON 432MHZ PLEASE LET'S HAVE

ANY QUESTIONS?

FUN [©]